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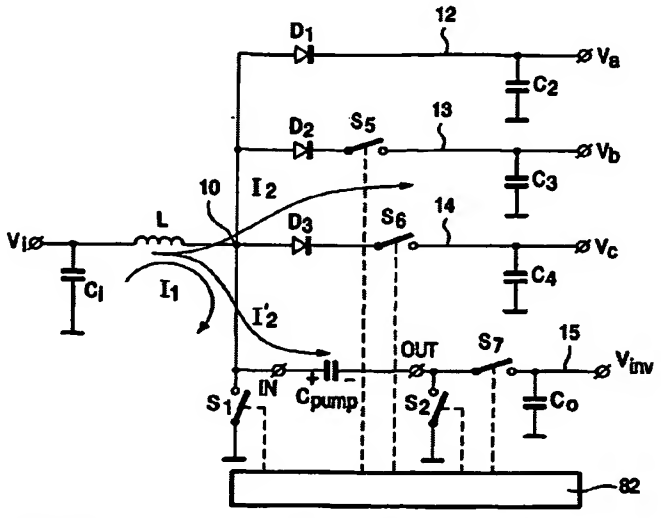
(54) Title: VOLTAGE CONVERTER



(57) Abstract: A voltage converter comprises an inductive circuit (L) for storing energy during an inductive magnetizing mode and transferring energy during an inductive demagnetizing mode. In addition the voltage converter comprises at least two non-inverting branches (12,13,14) for providing at least two non-inverted output voltages (Va,Vb,Vc) and an inverting branch (15) for providing an inverted output voltage. The inverting (15) and non-inverting (12,13,14) branches being parallely coupled to an output (10) of the inductive circuit (L). The inductive circuit being arranged to transfer energy to the inverting branch (15) and to one of the at least two non-inverting branches (12,13,14). Through this, the inverted voltage (Vinv) and the corresponding non-inverted output voltage (Va,Vb,Vc) of the one of the at least two non-inverting branches (12,13,14) are having an opposite polarity and a substantially equal magnitude.

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